

CITY OF HAYWARD

AGENDA REPORT

AGENDA DATE 05/04/04

AGENDA ITEM 4

WORK SESSION ITEM _____

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Approval of Plans and Specifications and Call for Bids for the Water System Chloramine Conversion Project Phase II

RECOMMENDATION:

It is recommended that the City Council adopt the attached resolution that approves the plans and specifications for the Water System Chloramine Conversion Project Phase II and calls for bids to be received on May 25, 2004.

BACKGROUND:

The City purchases all of its potable water from the San Francisco Public Utilities Commission (SFPUC). In February 2004, the SFPUC converted from chlorine to chloramines as its primary means of disinfection. The conversion allows the SFPUC to control the concentration of chlorine-related disinfection by-products (DBPs) in the water and provide a more stable and consistent residual. Chloramines, however, present new challenges regarding the potential for increased distribution system component failure and water quality problems, such as nitrification, which can result in a decrease in residual and positive bacterial counts. To reduce these risks, water systems need improved management to ensure adequate turnover of the reservoirs to maintain high water quality.

The Water System Chloramine Conversion Project consisted of two main projects -- Reservoir Piping Modifications for Chloramine Conversion and Flow Controls at Aqueducts. The primary goals of these projects are to modify the existing water system and correct the identified potential deficiencies in the existing water distribution systems to minimize the potential negative effects from the SFPUC's Chloramine conversion. In order to maintain proper water circulation and water quality in a chloraminated system and to avoid chemical degradations that can lead to adverse health effects to the public, the projects were divided into two phases. Phase I, consisting of identifying potential deficiencies in the water distribution system, installing mixing systems inside of the reservoir, and making improvements to the North Walpert Reservoirs was commenced and is near completion. Phase II includes modification to facilities shown in Exhibit A.

The Phase II modification project will include the replacement of existing pipeline and valves, adding small pumps, and modifying existing equipment. This modification of the existing water circulation system will achieve the water quality goals by utilizing automated mechanical equipment to move the water from the reservoir to customers at predetermined times. At the end of the pump cycle, fresh water is taken into the tank to maintain storage capacity and water quality.

Environmental Review:

This modification project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA) Section 15301, Existing Facilities, consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination.

PROJECT COST:

Initial Design Report	\$ 150,000
Design & Survey	500,000
Construction Phase I	545,000
Construction Phase II	1,000,000
In-house Construction and PG&E Cost	50,000
Inspection & Administration	<u>100,000</u>
Total:	\$2,345,000

FUNDING:

The 2003-04 Five Year Capital Improvement Program (CIP) includes a total of \$2,350,000 in the Water system Replacement Fund and the Water system Capital Improvement Fund for this project.

SCHEDULE:

The following tentative project schedule has been developed for the Phase II project:

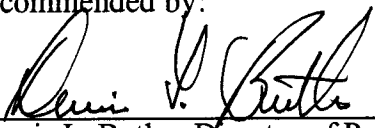
Bid Opening	May 25, 2004
Award Construction Contract	June 8, 2004
Begin Construction	July 1, 2004
Project Construction Completion	October 2004

Prepared by:



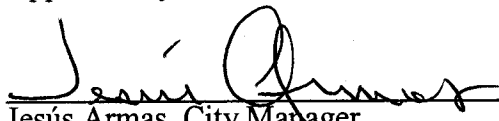
Alex Ameri, Deputy Director of Public Works

Recommended by:



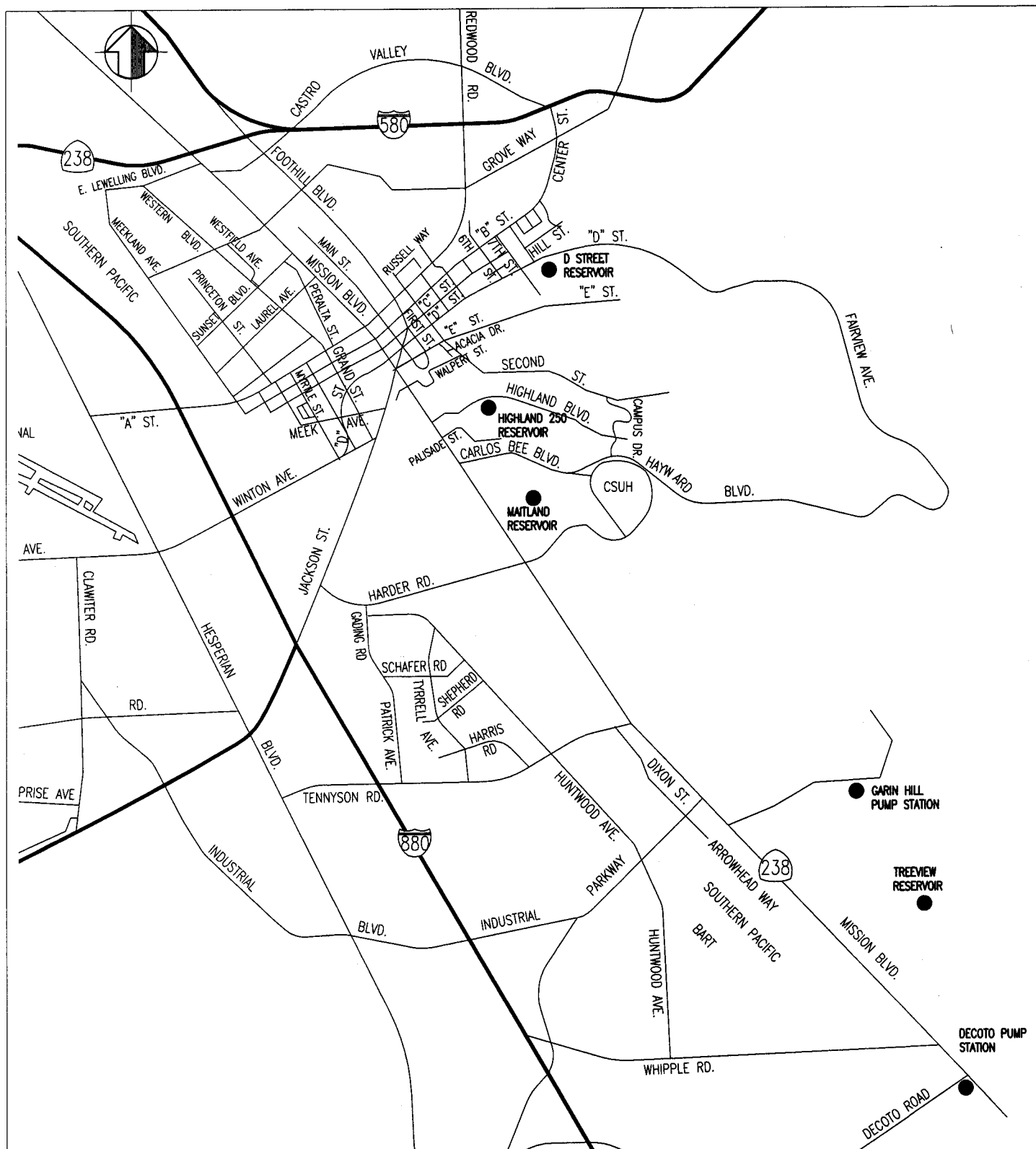
Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

Attachment: Exhibit A - Project Location Map



LEGEND: ● PROJECT LOCATION

PROJECT LOCATION MAP

**WATER SYSTEM CHLORAMINE CONVERSION PROJECT
PHASE II, PROJECT NOS. 622-7022 & 623-7158**

EXHIBIT "A"

DRAFT

HAYWARD CITY COUNCIL

RESOLUTION NO. 04-

Introduced by Council Member ____

RESOLUTION APPROVING PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THE WATER SYSTEM CHLORAMINE CONVERSION PROJECT PHASE II, PROJECT NOS. 7022 AND 7158, AND CALL FOR BIDS

BE IT RESOLVED by the City Council of the City of Hayward as follows:

1. That those certain plans and specifications for construction of the Water System Chloramine Conversion Project Phase II, Project Nos. 7022 and 7158, on file in the office of the City Clerk, are hereby adopted as the plans and specifications for the project; and
2. That the City Clerk is hereby directed to cause a notice calling for bids for the required work and material to be made in the form and manner provided by law; and
3. That sealed bids therefor will be received by the City Clerk's office at City Hall, 777 B Street, Hayward, California 94541-5007, up to the hour of 2:00 p.m. on Tuesday, May 25, 2004, opened and declared by the City Clerk in Conference Room 4D, City Hall, Hayward, California; and
4. That the City Council will consider a report on the bids at a regular meeting following the aforesaid opening and declaration of same.
5. That this project is categorically exempt under the guidelines of the California Environmental Quality Act, section 15301, Existing Facilities.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2004

ADOPTED BY THE FOLLOWING VOTE:

AYES: COUNCIL MEMBERS:

MAYOR:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward